



Arch Chemicals, Inc.

# MATERIAL SAFETY DATA

FOR ANY EMERGENCY, CALL 24 HOURS/7 DAYS:	1-800-654-6911
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300
FOR ALL MSDS QUESTIONS & REQUESTS, CALL MSDS CONTROL:	1-800-511-MSDS

**PRODUCT NAME: HTH® SPA FRAGRANCE-TROPIC BREEZE**

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

REVISION DATE: 12-06-2002 SUPERCEDES: 04-19-2002  
MSDS NO: 01930-0001 - 81211

MANUFACTURER: Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204

SYNONYMS: None  
CHEMICAL FAMILY: Glycol mixture  
FORMULA: Not Applicable/Mixture  
USE DESCRIPTION: Water soluble spa fragrance  
OSHA HAZARD CLASSIFICATION: Not considered to be hazardous under  
OSHA 29CFR1910.1200.

### SECTION 2 COMPONENT DATA

#### PRODUCT COMPOSITION

CAS or CHEMICAL NAME: 2,2-dihydroxydipropyl ether (propanol, oxybis-)  
CAS NUMBER: 25265-71-8  
PERCENTAGE RANGE: 95-100%  
HAZARDOUS PER 29 CFR 1910.1200: No  
EXPOSURE STANDARDS: None Established

Contains proprietary fragrance

### SECTION 3 PRECAUTIONS FOR SAFE HANDLING AND STORAGE

DO NOT TAKE INTERNALLY. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. UPON CONTACT WITH SKIN OR EYES, WASH OFF WITH WATER. AVOID BREATHING MIST OR VAPOR.

#### STORAGE CONDITIONS:

STORE IN A COOL, DRY, WELL VENTILATED PLACE AWAY FROM ALL SOURCES OF IGNITION.

#### PRODUCT STABILITY AND COMPATIBILITY

SHELF LIFE LIMITATIONS: No Data  
INCOMPATIBLE MATERIALS FOR STORAGE OR TRANSPORT: Strong oxidizers

### SECTION 4 PHYSICAL DATA

APPEARANCE: Dark green liquid  
FREEZING POINT: -40 Deg.C (-40 Deg.F) - based on solvent  
BOILING POINT: 232 Deg.C (450 Deg.F) - based on solvent  
DECOMPOSITION TEMPERATURE: No Data

SPECIFIC GRAVITY: 1 - 1.1  
BULK DENSITY: 1 - 1.1 gm/cc  
pH @ 25 DEG.C: Not Applicable  
VAPOR PRESSURE @ 20 DEG.C: < 1 mm Hg  
SOLUBILITY IN WATER: Complete  
VOLATILES, PERCENT BY VOLUME: No Data  
EVAPORATION RATE: No Data  
VAPOR DENSITY: 4.6  
MOLECULAR WEIGHT: 134.17 (solvent)  
ODOR: Herbal odor  
COEFFICIENT OF OIL/WATER DISTRIBUTION: No Data

#### SECTION 5 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS

##### PERSONAL PROTECTION FOR ROUTINE USE OF PRODUCT:

RESPIRATORY PROTECTION: Respiratory protection not required.

VENTILATION: Use with good general exhaust ventilation.

SKIN AND EYE PROTECTIVE EQUIPMENT: Use safety glasses with side shields.

##### EQUIPMENT SPECIFICATIONS (WHEN APPLICABLE):

RESPIRATOR TYPE: Not required

PROTECTIVE CLOTHING TYPE (This includes: gloves, boots, apron,  
protective suit): Butyl rubber or Nitrile rubber

#### SECTION 6 FIRE AND EXPLOSION HAZARD INFORMATION

##### FLAMMABILITY DATA:

FLAMMABLE: No

COMBUSTIBLE: No

PYROPHORIC: No

FLASH POINT: 138 Deg.C (280 Deg.F) Test Method: Cleveland open cup

AUTOIGNITION TEMPERATURE: No Data

FLAMMABLE LIMITS AT NORMAL ATMOSPHERIC TEMPERATURE AND PRESSURE (PERCENT  
VOLUME IN AIR): LEL - No Data UEL - No Data

##### NFPA RATINGS: (solvent)

Health: 0

Flammability: 1

Reactivity: 0

##### HMIS RATINGS:

Health: 0

Flammability: 1

Reactivity: 0

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry chemical, water  
spray

FIRE FIGHTING TECHNIQUES AND COMMENTS: Use water to cool containers  
exposed to fire. See Section 11 for protective equipment for fire  
fighting.

#### SECTION 7 REACTIVITY INFORMATION

##### CONDITIONS UNDER WHICH THIS PRODUCT MAY BE UNSTABLE:

TEMPERATURES ABOVE: Stable at normal temperatures

MECHANICAL SHOCK OR IMPACT: No

ELECTRICAL (STATIC) DISCHARGE: No

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide

SUMMARY OF REACTIVITY:

OXIDIZER: No  
PYROPHORIC: No  
ORGANIC PEROXIDE: No  
WATER REACTIVE: No

SECTION 8 FIRST AID

EYES: If in eyes, flush with plenty of water for at least 15 minutes.  
Call a physician if irritation develops.

SKIN: Not a skin irritant. Washing any substance off the skin with water  
is a good safety practice.

INGESTION: Immediately drink water to dilute. Consult a physician if  
symptoms develop.

INHALATION: This product is not toxic by inhalation. Remove individual  
to fresh air.

SECTION 9 TOXICOLOGY AND HEALTH INFORMATION

ROUTES OF ABSORPTION

THIS PRODUCT WOULD NOT BE EXPECTED TO EXERT A SIGNIFICANT ADVERSE EFFECT  
TO HEALTH FROM ANY ROUTE OF EXPOSURE.

WARNING STATEMENTS AND WARNING PROPERTIES  
DO NOT TAKE INTERNALLY.

HUMAN THRESHOLD RESPONSE DATA

ODOR THRESHOLD: No Data  
IRRITATION THRESHOLD: No Data  
IMMEDIATELY DANGEROUS TO LIFE OR HEALTH: No IDLH has been established  
for this product.

SIGNS, SYMPTOMS, AND EFFECTS OF EXPOSURE

INHALATION

ACUTE:

Not expected to be toxic by inhalation. It is not expected to produce any  
adverse health effects due to the low vapor pressure of this product.

CHRONIC:

None known or reported.

SKIN

ACUTE:

Dermal exposure would not be expected to produce irritation.

CHRONIC:

None known or reported

EYE

Contact would not be expected to cause irritation.

INGESTION

ACUTE:

Not expected to be toxic by ingestion.  
Ingestion may cause gastrointestinal discomfort with any or all of  
the following symptoms: nausea, vomiting or diarrhea.

CHRONIC:

None known or reported

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

There are no medical conditions known to be aggravated by exposure to this product.

#### INTERACTIONS WITH OTHER CHEMICALS WHICH ENHANCE TOXICITY:

None known or reported

#### ANIMAL TOXICOLOGY

##### ACUTE TOXICITY:

Inhalation LC 50: No Data  
Dermal LD 50: > 2 g/kg (rabbit)  
Oral LD 50: > 5 g/kg (rat)  
Irritation: Non-irritating to the skin and eyes.

##### ACUTE TARGET ORGAN TOXICITY:

Animal studies have shown that the ingestion of an extremely large quantity of this product can produce liver and kidney damage.

##### CHRONIC TARGET ORGAN TOXICITY:

There are no known or reported effects to humans from repeated exposure to this product.

##### REPRODUCTIVE AND DEVELOPMENTAL TOXICITY:

There are no known or reported effects on reproductive function or fetal development.

##### CARCINOGENICITY:

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

##### MUTAGENICITY:

Dipropylene glycol has been tested and was found to be non-mutagenic in both the Ames assay and Mouse lymphoma assay.

##### AQUATIC TOXICITY:

None known or reported for this product

#### SECTION 10 TRANSPORTATION INFORMATION

THIS MATERIAL IS NOT REGULATED AS A DOT HAZARDOUS MATERIAL.

#### SECTION 11 SPILL AND LEAKAGE PROCEDURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

REPORTABLE QUANTITY: Not Applicable

##### SPILL MITIGATION PROCEDURES:

Evacuation procedures must be placed into effect. Evacuate all non-essential personnel. Utilize emergency response personal protective equipment prior to the start of any response. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel.

AIR RELEASE: Vapors may be suppressed by the use of water spray or fog.  
Contain all liquid for treatment or neutralization.

WATER RELEASE: This material is heavier than and soluble in water.  
Notify all downstream water users of possible contamination. Divert water flow around spill if possible and safe to do so. If unable to divert, create an overflow dam to contain material. Continue

to handle as described in land spill.

LAND SPILL: Create a dike or trench to contain materials. Spill materials may be absorbed using sand, clay or vermiculite. Do not place spill materials back in their original container. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using soap solution and flush with large amounts of water.

SPILL RESIDUES:

Dispose of per guidelines under Section 12, WASTE DISPOSAL.

PERSONAL PROTECTION FOR EMERGENCY SPILL AND FIRE-FIGHTING SITUATIONS:

In case of fire, use normal fire fighting equipment including a NIOSH approved Self-Contained Breathing Apparatus (SCBA).

Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, gloves, hard hat, splash-proof goggles and impervious clothing, i.e., chemically impermeable suit.

Compatible materials for response to this product are: Butyl rubber or Nitrile rubber

SECTION 12 WASTE DISPOSAL

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations by incineration.

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

SECTION 13 ADDITIONAL REGULATORY STATUS INFORMATION

TOXIC SUBSTANCES CONTROL ACT:

The components of this product are listed on the Toxic Substance Control Act inventory.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III:

HAZARD CATEGORIES, PER 40 CFR 370.2:

HEALTH:

None

PHYSICAL:

None

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW, PER 40 CFR 355, APP.A:

EXTREMELY HAZARDOUS SUBSTANCE - THRESHOLD PLANNING QUANTITY:

None Established

SUPPLIER NOTIFICATION REQUIREMENTS, PER 40 CFR 372.45:

None Established

SECTION 14 ADDITIONAL INFORMATION

MSDS REVISION STATUS: Product re-formulated ;  
Revisions made to Sections # 1, 2, 5, 8, 9, 11, & 13

#### SECTION 15 MAJOR REFERENCES

References are available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

**Arch Chemicals, Inc.**  
MSDS Control  
501 Merritt 7  
PO Box 5204  
Norwalk, CT 06856-5204